



# INTEROFFICE CORRESPONDENCE



DATE: April 28, 1993

TO: E. M. Lee, Environmental Restoration Management, Bldg. 080, X8648

FROM: J. D. Roberts, Waste Solidification, Bldg. T893B, X3324

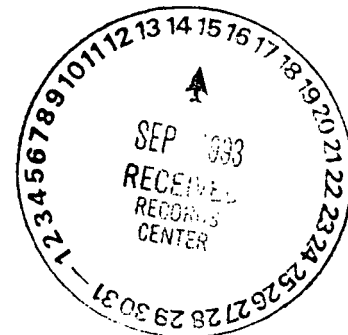
SUBJECT: EMPTY CLARIFIER SLUDGE - JDR-138-93

The clarifier at Building 788 was used as part of the pondcrete solidification process for a few years during the mid-1980's. When the operation was stopped, the clarifier and associated piping was not cleaned out, piping systems were not flushed, etc.

As the years pass, the sludge in the clarifier and piping systems is becoming more like a hard clay/bentonite solidified solid. The water level in the clarifier is being reduced by solar evaporation; water evaporates at a faster rate than water is accumulated in the clarifier due to snow/rain.

Clarifier freeboard levels have been:

	<u>1992</u>	<u>1993</u>
January	13"	38.5"
March	—	40.5"
April	—	42"
July	18"	—
October	33"	—



Waste Solidification (WS) has the experience and knowledgeable personnel to remove the sludges from the clarifier and piping systems (under the clarifier). Equipment (pumps, hoses, metal containers) is available and the sludge removal can be scheduled during 1993-94. An Integrated Work Control Program (IWCP) "B" work package can be written and Lockout/Tagout (LO/TO) procedures will be used for switches, valves, etc., during the operation.

Clarifier sludge will be pumped into metal containers, a 1/2" layer of clarifier water will be kept on top of the sludge and a new fiberglass lid will be installed and banded on top of the metal container. Less than six 4'x7'x4' metal containers and lids will be required; these metals will be stored at Building 788.

Existing clarifier water will be used to agitate the existing semi-solid sludge in the clarifier and flush the piping systems. Sludge bound pipes can be removed to the Building 788 Permacon and the solids reamed from the pipes with a low revolutions per minute (RPM) drill using 4' to 10' bit extensions.

DOCUMENT CLASSIFICATION  
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EG&G ROCKY FLATS, INC., ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 (303) 966-7000

ADMIN RECORD

A-DU04-000494

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All accessible pipes will be flushed with clarifier water.\*

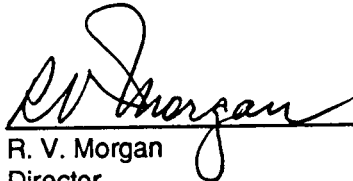
\*Clarifier water used for flushing will be allowed to be standing water (in a container for one week) to allow a maximum amount of suspended solids to precipitate out of the water; the flushing water will be semi-clear.

Contractor support personnel will not be required. The work briefly outlined above is included in the WS Goals for 1993 (see Attachment, Page 2).

Request your approval to include this work in the FY94 Solar Pond work package. Additionally, WS is ready to provide requirements for the Solar Ponds (and 750/904 Pad Operations) Work Package.

Thank you.

APPROVED:



R. V. Morgan  
Director  
Waste Operations

4/30/93

Date

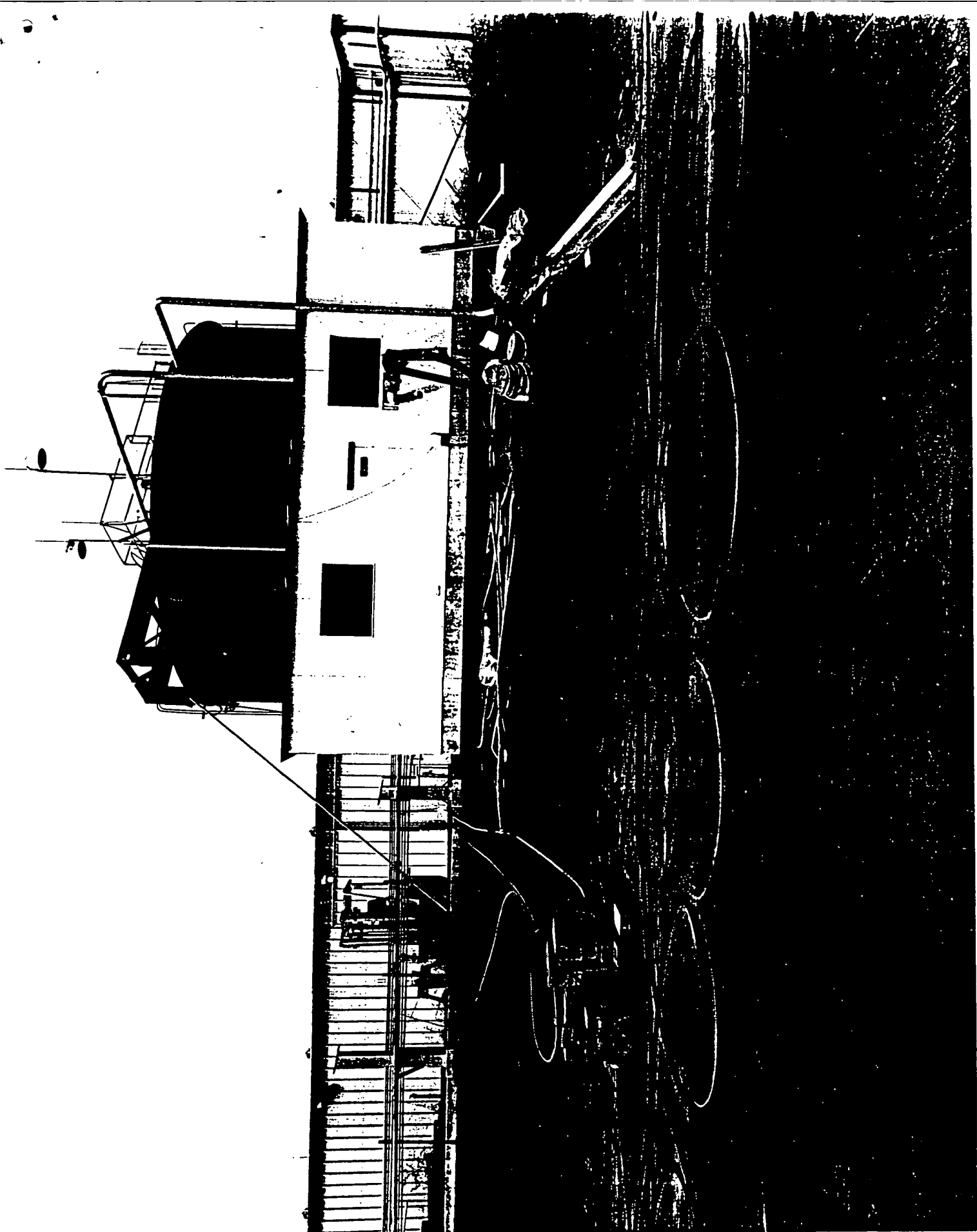
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Attachments:  
As Stated (2)

cc:

~~R. L. Benedetti~~

R. W. Boyle  
N. P. Cypher  
R. P. Dunn  
P. W. Edrich  
T. G. Hedahl  
C. B. Russell  
A. L. Schubert  
WS Managers



## INTEROFFICE CORRESPONDENCE

DATE: January 29, 1993

TO: All Waste Solidification Personnel

FROM: J. D. Roberts, Waste Solidification, Bldg. T893B, X3324


SUBJECT: WASTE SOLIDIFICATION GOALS FOR 1993 - JDR-011-93

The following 1993 goals have been reviewed by Waste Solidification (WS) Managers, Foremen, Chemical Operators, Radiation Protection Technologists (RPTs) and the office staff. All of these goals are achievable. The success of these goals will depend upon how well we communicate with each other.

### 1993 Measurable Goals:

#### Operations Support:

- Strive to have Turbine and Casement Door Replacement Project completed before Winter 1993.
- Successfully pass the WS part of the Nevada Test Site (NTS) audit.
- Temporarily fill 1993 vacant positions with WS personnel for six month periods for operational cross-training experience and to support company goals for a force reduction by attrition and to keep all personnel productively employed.
- || • Provide adequate Resource Conservation and Recovery Act (RCRA) aisle space in all Tents on the 750 Pad.
- || • Provide adequate RCRA aisle space in all Tents on the 904 Pad.
- Reduce WS Operations from three shift to two shifts (Days and PMs) to support company goals and to keep all personnel productively employed. (Completed January 4, 1993).
- Consolidate 207B Center sludge into 207B South by August 1993, then begin to consolidate 207B North sludge to 207B South Pond in support of the Solar Pond Project.
- Complete Tent 11 Permacon strip-out to provide more 904 Pad Storage space.
- Reseal the 904 Pad exterior surface.
- Invite WS Union Stewards to participate in planning operations with Line Managers (i.e., Triwall Restacking, Pond Cleanout, etc.).
- || • Complete assigned "Milestone" actions as expediently as possible and continue bi-weekly "Milestone" Meetings.

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- Empty clarifier of sludge and water as directed by Solar Pond Project Management (only six metal containers required).
  - Remove excess equipment from all areas i.e., old pumps, scales, motors, front end loader, MT drums, bulk cement, etc.; continue cleanup of WS plantsite areas.
  - Improve shift turnover communication *Done* and keep all Shift Change Meetings to less than 15 minutes.
  - || • Request funding to remove remix equipment *Done* from Tent 10 Permacon.
  - Request funding to install Heat Trace on Above Ground Transfer Line (AGTL) from Pads to Building 774.
  - Establish and maintain a Repacking Facility for Low Level Waste (LLW) in Tent 10 Permacon for use by WS and other plantsite departments *Done*.
  - Provide full MOU support with Solar Pond Project Management *Done*.

**Training/Safety/RCRA:**

- Continue development of an Internal Qualification Program for the Chemical Operators; (Conduct of Operations (COOP) 3 is not fully implemented until this is completed.)
- || • Complete RCRA Qualification Standard Packages for all WS personnel (18 out of 74 personnel qualified, as of January 1993). *Done*
- Revise Pondcrete Emergency Plan.
- Continue zero reportable RCRA spills goal.
- Work to eliminate requirement for runoff water collection on Pads.
- At least two Managers attend Supervisory Academy. (All nine WS Foremen have completed Academy.)
- || • Repack and stack triwalls at the 904 Pad with adequate RCRA aisle space to remove long term RCRA deficiency (or other acceptable Colorado Department of Health (CDH) alternative).
- No reportable spills during the 904 Rebagging Operations.
- Qualify Foremen on all shifts of work in all areas by rotating personnel to different work areas.
- Maintain all WS Heat/Trace systems to ensure the best possible Winter Freeze Protection.
- || • Maintain all WS material and equipment facilities and inventories: Chemical, Material Safety Data Sheets (MSDS), Spill Kits, equipment calibrations and equipment (pumps, etc.). *Done*
- Meet 100% commitments for Site Operations Review Committee (SORC) and 75% commitments for Waste Operations Review Committee (WORC). *Done*

- Reduce Integrated Work Control Program (IWCP) Maintenance work order backlog to 25 work orders by January 1, 1994 (1/91 - 263 work orders; 1/92 - 157 work orders; 1/93 - 50 work orders).
- Dispose of five plastic contaminated tanks at Building 910 (originally obtained for Solar Pond Project).
- Zero Lockout/Tagout (LO/TO) violations (zero violations in 1991 and 1992).
- Zero training No-Shows (24 in 1991; only 6 in 1992).
- Reduce accidents/injuries by 25% (accomplished in 1992).
- Keep Foremen and Managers current in the Department of Transportation (DOT) Workshop.
- Update and/or deactivate all WS procedures: RCRA, Operational Safety Analysis (OSAs), WO-3053, WO-3052.
- Utilize current video tapes in the library for new personnel orientation.
- Complete disposal of 4,000 pound Caterpillar frame at Solar Ponds.
- Inventory equipment and put all excess on material list available for requisition by other departments.
- Decon contaminated 1989 front end loader presently tarped and posted at 207A Pond.
- Reduce Radiological Deficiency Reports (RDRs) by 20% (30 in 1991; 30 in 1992).
- Reduce Safety Concerns—less than six Safety Concerns (8 in 1991; 14 in 1992).
- Reduce Grievances by 20% (17 in 1991; 14 in 1992).
- Support Career Enhancement (college courses); at least three salaried personnel enroll in a certificate or college program.
- Complete cutup of all scrap metal in Building 788 (a RCRA deficiency since 1990).

**Office Support:**

- Reorganize crowded office files and update the office file system.
- Continue to work towards an office trailer for all WS salaried personnel outside of a security area.
- Improve communication within group. Utilize existing bulletin boards for more Highlights, Staff Minutes, Announcements, etc.

**Housekeeping/General/Other:**

- Improve communication with upper Management. Strive to provide monthly tours of Pads and Pond areas to Associate General Manager (AGM) and Director level Managers that support WS Operations.

- When the opportunity arises in 1993 for more challenging assignments or new areas of responsibility, be ready.
- Complete Pad and Pond FY94 Work Packages Input by July 1993.
- Coordinate a more efficient "Post Office *Done*" method for our trailer.
- Office Personnel invited to Friday, 7:15 or 3:15 Shift Change/Staff Meetings in T750G.
- Training and office staff add more color (with our new color printer) to print outs, etc.
- Training to implement a centralized filing system on the computer/hard copy.
- To reduce waste, utilize double sided printouts for distribution.
- Shift Managers and Foremen continue daily Housekeeping Tours of their assigned areas.
- Respond to Plant Action Tracking System (PATs) tracking items and continue to close all reportable deficiencies as expeditiously as possible.
- All WS personnel to be at least five minutes early to all meetings and training sessions.
- WS salaried personnel to sit "at the table" (vs. around the perimeter of the room) at meetings. (Players sit at the table; observers sit around the room. If it is important enough to go to the meeting, it is important enough to be a Player at the table.)
- Invite all personnel (salary and hourly) to at least one holiday social.
- Put pagers on "vibrate" during all meetings; no WS pagers to "beep" at any meetings.
- Enhance employee development: Stress importance of an Effective Writing class (salaried) and semi-annual counseling/performance interviews.
- Informal, non-mandatory Management rap meetings over breakfast at 0600 in 750 Cafeteria.
- Press to hire two new Utility Workers to support WS 80 hours per week/per WS Work Package.
- Strive for Memorandum of Understanding (MOU) with Logistics Department for Utility Workers for Pad snow removal and with the Utilities Department for the Housekeeping of break trailers.

mln

cc:

R. W. Boyle  
M. T. Davidson  
R. E. James  
E. M. Lee  
R. V. Morgan